

U.S. ENVIRONMENTAL PROTECTION AGENCY
POLLUTION/SITUATION REPORT
Radiation - Standard Products - Removal Polrep



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region VII

Subject: POLREP #3
Radiation - Standard Products

Wichita, KS
Latitude: 37.6748800 Longitude: -97.3305000

To: David Williams, EPA

From: Randy Schademann, OSC

Date: 1/25/2013

Reporting Period:

1. Introduction

1.1 Background

Site Number:	A7N1	Contract Number:	EP-R7-07-12
D.O. Number:	0131	Action Memo Date:	6/13/2012
Response Authority:	CERCLA	Response Type:	Time-Critical
Response Lead:	EPA	Incident Category:	Removal Action
NPL Status:	Non NPL	Operable Unit:	
Mobilization Date:	7/16/2012	Start Date:	7/16/2012
Demob Date:	8/28/2012	Completion Date:	
CERCLIS ID:	KSN000705966	RCRIS ID:	
ERNS No.:		State Notification:	KDHE
FPN#:		Reimbursable Account #:	

1.1.1 Incident Category

Time-critical, fund-lead removal action.

1.1.2 Site Description

1.1.2.1 Location

650 East Gilbert Street, Wichita, Kansas.

1.1.2.2 Description of Threat

Radium-226 contaminated material.

1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

The Kansas Department of Health and Environment (KDHE) conducted field work in August, September and December 2007, to support a Unified Focus Assessment (UFA) Report issued in February 2008. Five groundwater samples and 24 soil samples were collected at 650 East Gilbert for the UFA. Analysis included radium-226, the eight Resource Conservation and Recovery Act (RCRA) metals and volatile organic compounds (VOCs). The UFA identified several areas that had elevated radium concentrations exceeding the standard established at 40 CFR § 192.12 for a cleanup level not to exceed background plus five pCi/g. (up to 81,800 pCi/g of radium-226). No samples were taken or field screening conducted at the 920 South St. Francis parcel during the KDHE UFA.

The EPA conducted field activities for a Removal Site Evaluation (RSE) in March and April of 2009. Field screening with radiation detectors and radiation analysis of soil samples further defined the vertical and aerial extent of contamination on the Gilbert parcel as well as identifying radium-contaminated material on the South St. Francis parcel.

2. Current Activities

2.1 Operations Section

2.1.1 Narrative

Soil contaminated with radium-226 above the 6.87 pCi/g action level will be removed and transported to EnergySolutions' disposal facility in Grantsville, Utah. After removing the contaminated soil from the affected area, the excavated soils will be replaced with clean soils. Clean soils are soils that have been analyzed for radium, with results indicating that the concentration is at or below the background and that all other hazardous substances, pollutants or contaminants are below residential soil screening levels as determined by the EPA, or as referenced in the Region 9 Preliminary Remediation Goal tables found at <http://www.epa.gov/region9/superfund/prg/>, or as outlined in the KDHE RSK Manual, Version 5, 2010. The soils at the site will be backfilled with soil topped with either concrete or rock.

The excavated material will be transported and disposed of at a licensed facility in accordance with all applicable local, state and federal requirements.

At this time, no post removal site control will be necessary.

2.1.2 Response Actions to Date

A fund-lead, time-critical removal action was initiated on July 28, 2009, and field work was completed by July 31, 2009, at the 920 South St. Francis Street parcel. Approximately 264 tons of radium-contaminated soil and bricks were excavated and transported for disposal at US Ecology's facility in Grand View, Idaho. The excavated areas were backfilled with soil.

A second fund-lead action was initiated on July 16, 2012, to address the contamination at the 650 East Gilbert Street parcel.

November 7, 2012 - A final gamma survey was delayed because of a theft of equipment from a contractors vehicle. Despite conducting surveys during the excavation, a small area of elevated gamma readings was detected in during the final survey. Because the removal equipment has long since been demobilized from the site, the contaminated soil will be excavated during a removal at a separate radium dial site scheduled for spring 2013.

2.1.3 Enforcement Activities, Identity of Potentially Responsible Parties (PRPs)

A PRP search is in progress by the EPA.

2.1.4 Progress Metrics

<i>Wastestream</i>	<i>Medium</i>	<i>Quantity</i>		<i>Treatment</i>	<i>Disposal</i>
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			Manifest #		
<i>Radium contaminated material</i>	<i>Soil, bricks</i>	<i>1775.9 Tons</i>	<i>Multiple</i>	<i>None</i>	<i>Energy Solutions, Grantsville, Utah</i>

2.2 Planning Section

2.2.1 Anticipated Activities

2.2.1.1 Planned Response Activities

Certificates of disposal had been received after the material reached Energy Solutions Clive facility in Grantsville, Utah.

2.2.1.2 Next Steps

Removal of the remaining contaminated soil will be conducted in the spring of 2013. A final PolRep will be developed when all the material has been shipped to Grantsville, Utah.

2.2.2 Issues

None at this time.

2.3 Logistics Section

Logistics are being handled by the ERRS Response Manager in coordination with the OSC.

2.4 Finance Section

2.4.1 Narrative

Final costs may exceed the original obligation to ERRS. An ammendment to that task order will be developed. An amendment to the Action Memorandum will not be required as the costs will be less than the ceiling established therein.

Estimated Costs *

	Budgeted	Total To Date	Remaining	% Remaining
Extramural Costs				
ERRS - Cleanup Contractor	\$523,692.00	\$500,000.00	\$23,692.00	4.52%
TAT/START	\$33,600.00	\$18,000.00	\$15,600.00	46.43%
Intramural Costs				
USEPA - Direct	\$25,000.00	\$16,000.00	\$9,000.00	36.00%

Total Site Costs	\$582,292.00	\$534,000.00	\$48,292.00	8.29%

* The above accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The OSC does not necessarily receive specific figures on final payments made to any contractor(s). Other financial data which the OSC must rely upon may not be entirely up-to-date. The cost accounting provided in this report does not necessarily represent an exact monetary figure which the government may include in any claim for cost recovery.

2.5 Other Command Staff

2.5.1 Safety Officer

All removal work is being conducted in accordance with the approved Site Safety Plan and under the guidance of the EPA Region 7 Radiation Safety Officer, Chuck Hooper.

2.6 Liaison Officer

Beckie Himes, Community Involvement Coordinator with the EPA Region 7 - Office of Public Affairs, will serve as the Liaison Officer.

2.7 Information Officer

Beckie Himes, Community Involvement Coordinator with the EPA Region 7 - Office of Public Affairs, will serve as the Information Officer.

2.7.1 Public Information Officer

A fact sheet was prepared and delivered to congressional and state representatives. Local government notification was conducted through the Sedgwick County, Kansas Health Department.

No media requests were recieved for this site. Only nominal public interest was generated from passerbys.

2.7.2 Community Involvement Coordinator

Beckie Himes, Community Involvement Coordinator with the EPA Region 7 - Office of Public Affairs, will serve as the CIC.

3. Participating Entities

3.1 Unified Command

A unified command was not established for this activity.

3.2 Cooperating Agencies

US EPA
KDHE
Sedgwick County, Kansas Health Department
City of Wichita

4. Personnel On Site

During the majority of the removal activities, there were 10 personnel on site: two EPA On-Scene Coordinators, seven Emergency and Rapid Response Services (ERRS) contractors, and one Superfund Technical Assessment and Response Team (START) contractor.

5. Definition of Terms

BAR - Bureau of Air and Radiation
CERCLA - Comprehensive Environmental Response and Liability Act
CFR - Code of Federal Regulations
EPA - U.S. Environmental Protection Agency
ERRS - Emergency and Rapid Response Services
KDHE - Kansas Department of Health and Environment
MARSSIM - Multi-Agency Radiation Survey and Site Investigation Manual
pCi/g - picocuries per gram
RCRA - Resource Conservation and Recovery Act
RSE - Removal Site Evaluation
RSK - Risk-based Standards for Kansas
START - Superfund Technical Assistance and Response Team
UFA - Unified Focus Assessment
UMTRCA - Uranium Mill Tailings Radiation Control Act

6. Additional sources of information

6.1 Internet location of additional information/report

For additional information please refer to <http://www.epaosc.org/standardproducts>.

6.2 Reporting Schedule

A final PolRep will be developed when there remaining contaminated soil has been removed and the certificates of disposal of the contaminated material is received.

7. Situational Reference Materials

February 12, 1998, memorandum from Stephen Luftig, the Director of the Office of Superfund Remediation Technology Innovation (February 12, 1998, Directive number 9200.4-25)

Section 275 of the Atomic Energy Act, 42 U.S.C. § 2022, as amended by section 206 of the UMTRCA of 1978, 42 U.S.C. § 7918, and regulations at 40 CFR § 192.12

Region 9 Regional Screening Level tables found at <http://www.epa.gov/region9/superfund/prg/>

[KDHE](#) RSK Manual, Version 5, 2010